

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1-18 (Canceled).

1 19. (Previously presented) A controlled deflection roll having a rotatable roll
2 shell which is penetrated by a stationary shaft, a hydraulic bearing arrangement between shaft
3 and roll shell, which is formed by individual hydrostatic bearing elements arranged axially
4 beside one another, which each comprise a radially movable force element having an outer
5 bearing pocket element, the outer bearing pocket element having a cylindrical outer bearing
6 surface supporting the cylindrical roll shell hydrostatically on an inner shell circumferential line,
7 and having an edge bearing unit provided at each end of the roll shell, the outer bearing pocket
8 element in each case being mounted hydrostatically on a spherical inner bearing surface running
9 concentrically with respect to the inner circumferential line of the roll shell.

1 20. (Previously presented) The controlled deflection roll as claimed in claim
2 1, the hydrostatic bearing elements in each case having an inner hydrostatic supporting element,
3 on which the inner bearing surface is formed.

1 21. (Previously presented) The controlled deflection roll as claimed in claim
2 1, the force element being formed as a pressure piston, which is guided such that it can be moved
3 radially in a recess in the shaft.

1 22. (Previously presented) The controlled deflection roll as claimed in claim
2 1, the inner bearing surface being assigned an inner bearing pocket element.

1 23. (Currently amended) The controlled deflection roll as claimeded in claim 1,
2 the outer bearing pocket element being formed by an outer hydrostatic supporting element,

3 which accommodates an inner bearing pocket element while forming an inner bearing edge
4 surface.

1 24. (Previously presented) The controlled deflection roll as claimed in claim
2 1, the spherical inner bearing surface being provided on an inner supporting element of a force
3 element.

1 25. (Previously presented) The controlled deflection roll as claimed in claim
2 1, the inner bearing surface consisting of individual surface sections.

1 26. (Previously presented) The controlled deflection roll as claimed in claim
2 1, the hydrostatic bearing elements each being connected to a feed line for a pressure fluid for
3 feeding bearing pocket elements.

1 27. (Previously presented) The controlled deflection roll as claimed in claim
2 26, the feed lines for the pressure fluid each being connected to a control unit which determines
3 the pressure and the flow of the pressure fluid.

1 28. (Previously presented) The controlled deflection roll as claimed in claim
2 26, it being possible for outer and inner bearing pocket elements to be pressurized with a
3 constant volume flow of a pressure fluid in each case.

1 29. (Previously presented) The controlled deflection roll as claimed in claim
2 1, the edge bearing unit at the end of the roll shell being formed by an antifriction bearing
3 arranged on a radially moveable bearing ring in each case.

1 30. (Previously presented) The controlled deflection roll as claimed in claim
2 1, the edge bearing unit at the end of the roll shell being formed by at least two hydraulic
3 bearings arranged distributed in the circumferential direction on a radially movable bearing ring,
4 which are formed in the same way as the hydrostatic bearing elements.

1 31. (Previously presented) The controlled deflection roll as claimed in claim
2 1, the hydrostatic bearing elements being arranged along opposite rows between the two edge
3 bearing units.

1 32. (Previously presented) The controlled deflection roll as claimed in claim
2 1, it being possible for a heating medium to be fed into an annular space between roll shell and
3 shaft.

1 33. (Previously presented) The controlled deflection roll as claimed in claim
2 1, the roll shell having an outer resilient cover.

1 34. (Currently amended) The controlled deflection roll as claimed in claim 1,
2 the outer hydrostatic supporting element in each case being assigned a sealing gap maintaining
3 apparatus, which comprises a hydrostatic mounting element ~~which~~ with an independent pressure
4 medium supply.

1 35. (Previously presented) The controlled deflection roll as claimed in claim
2 34, the hydrostatic bearing element being formed outside the outer bearing edge surface on the
3 outer hydrostatic supporting element and comprising at least three bearing pockets arranged
4 distributed circumferentially and fed jointly via connected pressure lines.

1 36. (Previously presented) The controlled deflection roll as claimed in claim
2 34, the hydrostatic bearing element having a plurality of bearing pockets arranged at a distance
3 from one another and bounded by an annular surface in each case.